

Q 1 Which of the following is not a component of HIV?

A RNA

B protein

C ribosomes

D reverse transcriptase

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Q 2

What is true for pili and flagella like structures of bacteria

A

both are same in size

B

both help in movement

C

both are composed of proteins

D

All of Above

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Q 3

The lighter, inner section of the brain is called:

A

white matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q 4

Centrioles are composed of how many triplets of microtubules?

A

6

B

9

C

12

D

15

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Q 5

Which method is of asexual reproduction?

A

sporulation

B

fission

C

apomixis

D

all of these

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Q 6

Haemophilia B is caused in the absence of:

A

Factor XI

B

Factor IX

C

Factor VIII

D

Factor VII

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Q 7

Adaptation of traits to better fill a niche is known as which of the following?

A

polymorphism

B

gene linkage

C

specialization

D

replication

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Q 8

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

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Q 9

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

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Q 10

In uncompetitive inhibition, the inhibitor binds with

A

enzyme

B

substrate

C

ES-complex

D

all of these

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Q 11

Inbreeding increases the frequency of which of the following?

A heterozygous

B genetic diversity

C genetic linkage

D homozygous

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Q 12

Which of the following carbohydrate cannot be hydrolysed?

A

Monosaccharides

B

Oligosaccharides

C

polysaccharides

D

carbohydrates

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Q 13

One of the actions of the parasympathetic nervous system is?

A

Inhibits peristalsis

B

Dilates Bronchioles

C

Constriction of Pupils

D

Sweat secretion

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Q 14

The function of spleen is to filter ---

A

Blood

B

Lymph

C

Semen

D

Amniotic fluid

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Q 15

Cellular respiration is essentially what type of process?

A Oxidation

B Reduction

C Redox

D None of the above

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Q 16

The function of lymph node is to filter ----

A

Blood

B

Lymph

C

Semen

D

Amniotic fluid

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Q 17

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Q 18

Both radial and bilateral symmetry is found in which of the following phylum?

A

Protozoa

B

Porifera

C

Echinodermata

D

all of these

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Q 19

Which two reactions occur during photophosphorylation

A ATP is hydrolysed and NADP is reduced.

B ATP is hydrolysed and NADPH is oxidised.

C ATP is synthesised and NADP is reduced.

D ATP is synthesised and NADPH is oxidised

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Q 20

This is true about pyruvate hydrogenase enzyme

A

it converts pyruvate to oxaloacetate

B

it catalyzed the oxidative decarboxylation reaction

C

it is present in cytosol of eukaryotic cell

D

its requires NADH

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Q 21

Which of the following is the key function of pleural cavity?

A

Reduces friction between membranes

B

Slide easily on one another

C

allows membrane to adhere on one another

D

all of these are correct

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Q 22

In which of these reflexes, a skeletal muscle contraction causes the agonist muscle to simultaneously lengthen and relax?

A stretch reflex

B spinal reflex

C golgi tendon reflex

D Crossed Extensor Reflex

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Q 23

Which of the following is an ovoviviparous organism?

A

reptiles

B

mammals

C

frog

D

Duckbill platypus

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Q 24

Cancer is a malignant tumour that can:

A control the other cells

B spread in all the body

C remains in specific place

D all of these are correct

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Q 25

This jelly like substance inside the plasma membrane in which all cell organelles are floating is?

A

cytoplasm

B

tonoplasm

C

karyoplasm

D

cell sap

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Q 26

Movement of the material across the cell membrane which does not requiring expenditure of metabolic energy is called?

A active transport

B passive transport

C diffusion

D both b and c

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Q 27

Water soluble vitamins contain high proportion of which of the following?

A electronegative oxygen

B nitrogen atoms

C sulfur

D both a and b

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Q 28

tropical plants such as sugarcane show high efficiency of CO_2 fixation because of

A calvin cycle

B hatch-slack

C TCA-cycle

D all of these

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Q 29

All of the following are true about bacilli bacteria except

A All bacilli are gram positive

B All bacilli are aerobic

C All bacilli are rod-shaped

D both a and b

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Q 30

The 23rd pair of chromosomes in man is:

A

Polymorphic

B

Heteromorphic

C

Homomorphic

D

Automorphic

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Q 31

The main transmitter for synapses that lie outside the central nervous system is?

A

adrenaline

B

serotonin

C

dopamine

D

acetylcholine

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Q 32

Neo-Darwinism has integrated discoveries and ideas from which of the following fields of study?

A

genetics

B

paleontology

C

taxonomy

D

all of these

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Q 33

The female gametes are most commonly referred as?

A

egg

B

ova

C

ovum

D

all of these

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Q 34

Enzymes do not change which of the following?

A

conc. Of reactants

B

conc. Of products

C

K_{eq}

D

both a and b

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Q 35

In humans gill pouches have evolved into which of the following organs?

A

nose

B

ear

C

pharynx

D

eustachian tubes

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Q 36

Which of the following is an example of a tetrapod?

A

Flesh fly

B

Blue-ringed octopus

C

Tarantula

D

Hummingbird

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Q 37

If the 1 amino acid is joined together by peptide bonds, it becomes

A

protein

B

globular protein

C

functional protein

D

secretive protein

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Q 38

Example of convergent evolution is

A

forelimbs of man and bat

B

wings of birds and insects

C

Darwin's finches

D

all of above

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Q 39

The sperms are what in origin?

A

Ectodermal

B

Mesodermal

C

Endodermal

D

none of these

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Q 40

Which one is not found in fatty acids in acylglycerols?

A

C26

B

C25

C

C30

D

C28

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Q 41

These give rise to nematocysts in Cnidaria.

A

Cnidocytes

B

Gastrozooids

C

Hydrozooids

D

Mesoglea

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Q 42

_____ are among smallest known virus

A

picornavirus

B

parvoviruses

C

herpes virus

D

rotavirus

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Q 43

The embryonic hindbrain gives rise to which structures in brain?

A

Diencephalon

B

Midbrain

C

Cerebrum and basal ganglia

D

cerebellum, pons and medulla oblongata

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Q 44

Tropomyosin binds to — and prevents the myosin from sliding up the actin filament.

A

myosin

B

actin

C

Myosin filament

D

Both B and C

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Q 45

Intercostal muscles are found in

A

Ribs

B

Pharynx

C

Lungs

D

Both B and C

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Q 46

The types of gametes produced by two pairs of chromosomes can be?

A

2

B

4

C

6

D

8

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Q 47

The optimal pH in which the enzyme kinase functions is?

A

1.5

B

3.5

C

5.5

D

7.5

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Q 48

The genetically engineered virus is available for which of the following hepatitis virus?

A

HBV

B

HAV

C

HCV

D

A and B

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Q 49

What is the most common electron transport chain?

A non-cyclic electron flow

B cyclic electron flow

C circular electron flow

D both b and c

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Q 50

The size of viruses as compared to bacteria is

A

much smaller

B

almost equal in size

C

much larger

D

All of Above

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Q 51

All of the following descriptions concerning viral multiplication and nucleic acids are true EXCEPT that:

A

viruses contain DNA or RNA, not both.

B

viruses replicate only in living cells

C

viruses use the cell's biosynthetic machinery to synthesize copies of themselves.

D

viral mRNA, viral tRNA, and viral ribosomes are used in viral replication.

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Q 52

The Urey-Miller experiment determined which of the following results?

A

DNA replicates by semiconservative replication

B

Cyanobacteria were responsible for the oxygenation of the atmosphere

C

The early atmosphere was composed of ammonia and methane

D

Organic molecules can arise from inorganic precursors

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Q 53

Two populations of the same species over time grow distant from one another. At what point will these two populations be considered different species?

A

When the populations begin to eat different foods

B

When there is a physical barrier, such as a river, between the two populations

C

When the two populations have not been in contact with one another for two hundred years

D

When they are no longer able to interbreed

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Q 54

What is the phenotypic ratio for a cross between a plant with blue flowers BB and a plant with white flowers bb?

A 25% blue, 75% white

B 75% blue, 25% white

C All white

D All blue

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Q 55

Which of the following virus is enveloped?

A

adenovirus

B

herpes virus

C

poliovirus

D

none of these

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Q 56

The optimum pH for the functioning of pancreatic lipase is?

A

8

B

9

C

7

D

6

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Q 57

What would be the resolving power of the objective length in a microscope if the eyepiece is 10X and total magnification is 40X?

A

4

B

10

C

40

D

400

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Q 58

Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?

A

Meiosis

B

Fertilization

C

Ovulation

D

Oogenesis

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Q 59

From one pyruvate passing through Krebs cycle, how many NADH are formed?

A

1

B

2

C

3

D

4

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Q 60

A scientist who first reported about microbes is

A

Antonie Van Lecuwenhoek

B

Robert Koch

C

Louis Pasteur

D

Twort

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Q 61

The nodules of lymphoid tissue found in the wall of the intestinal tract are termed as:

A Grave's region

B Hashimoto's nodes

C Peyer's patches

D DiGeorge's nodes

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Q 62

What is a key difference between spermatogenesis and oogenesis?

A

Spermatogenesis results in only 1 sperm; oogenesis results in 4 eggs.

B

Spermatogenesis results in 2 sperm; oogenesis results in only 1 egg.

C

Spermatogenesis results in 8 sperm; oogenesis results in only 4 eggs.

D

Spermatogenesis results in 4 sperm; oogenesis results in only 1 egg.

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Q 63

Under microscopic examination, which cellular structure would differentiate a plant cell from an animal cell?

A nucleus

B cell membrane

C cytoplasm

D cell vacuole

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Q 64

The autonomic nervous system functions to

A

act on external environment

B

regulate the internal environment

C

transmit motor information to brain

D

none of these

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Q 65

Which of the following is NOT a bony fish?

A

Perch

B

Plaice

C

Catfish

D

Dogfish

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Q 66

The canal system in sponges develops due to which of the following?

A

Porous walls

B

Gastrovascular system

C

Reproduction

D

Folding of inner walls

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Q 67

What is the chemical characteristic of auxins?

A

Indole propionic acid

B

Indole carboxylic acid.

C

Indole acetaldehyde

D

Indole acetic acid.

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Q 68

Which of these is common in both lymph vessels and veins?

A

Both have small bore

B

both have valves

C

both have low blood pressure

D

both are communicated

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Q 69

Principle of transformer is

A

mutual inductance

B

self induction

C

motional emf

D

none of these

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Q 70

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A

meter

B

meter square

C

meter cube

D

centimeter

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Q 71

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

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Q 72

Coulomb force is a

A

Short range force

B

Long range force

C

Medium range force

D

None of these

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Q 73

Which of the following is the same for isotopes?

A neutrons

B protons

C electrons

D all of them

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Q 74

The SI Unit of electric charge is?

A

Coulomb

B

Ampere

C

Hertz

D

Volt

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Q 75

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A 40 Hz

B $\frac{1}{5}$ Hz

C 5 Hz

D 500 Hz

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Q 76

Which of the following is not a type of rectifier?

A Phase wave rectifier

B Full wave

C half wave

D none of them

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Q 77

An oscillation is called simple harmonic motion when:

- A acceleration is directly proportional to $-x$
- B acceleration is directly proportional to x
- C acceleration is directly proportional to v
- D acceleration is inversionally proportional to $-x$

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Q 78

The ratio of period of excitation in ordinary and metastable state is

A

4:10⁻⁸

B

1:10⁻⁸

C

1:10⁵

D

All of these

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Q 79

Rate of change of displacement with respect to time is

A

acceleration

B

velocity

C

speed

D

power

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Q 80

Angular displacement is a:

A

vector quantity

B

scalar quantity

C

neither scalar nor vector quantity

D

none of these

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Q 81

Can we see magnetic flux lines?

A

Yes

B

No

C

Depends on strength of field

D

Only when the field is large

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Q 82

Internal energy of the system depends on:.....

A

initial and final states of the system and the path from initial to final state

B

initial and final states of the system only

C

initial state of the system and the path from initial to final state

D

the path from initial to final state

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Q 83

Two point charges attract each other with an electric force of magnitude F . If the charge on one of the particles is reduced to one-half its original value and the distance between the particles is doubled, what is the resulting magnitude of the electric force between them?

A F

B $F/2$

C $F/4$

D $F/8$

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Q 84

Electric field lines due to a negative charge are:...

A

always horizontal

B

always vertical

C

radially towards the charge

D

radially away from the charge

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Q 85

A transformer has negative voltage regulation when its load power factor is

A Lagging

B Leading

C Unity

D any of above

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Q 86

The H atom cannot produce

A

alpha rays

B

beta rays

C

x-rays

D

none of these

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Q 87

What is an optically active medium?

A

which absorbs light

B

which absorbs polarized light

C

which rotates plane of polarization

D

which refract polarized light

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Q 88

The resistance of a superconductor is

A

Finite

B

Infinite

C

Zero

D

Changes with every conductor

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Q 89

A sinusoidal current has rms value of 10A. What is the peak value of current?

A

144.4A

B

1.4A

C

0.1414A

D

14.4A

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Q 90

The source of x rays generation is

A

Cu

B

H

C

Na

D

Al

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Q 91

joule / coulomb is unit of...

A

electric potential difference

B

electric field strength

C

magnetic field strength

D

energy

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Q 92

In compton's scattering process , wavelength of scattered X-rays :

A

Remains same

B

Increases

C

Decreases

D

None of these

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Q 93

A transverse wave on a string has an amplitude A . A tiny spot on the string is colored red. As one cycle of the wave passes by, what is the total distance traveled by the red spot?

A

A

B

$2A$

C

$A/2$

D

$4A$

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Q 94

The angular acceleration is similar to

A

centripetal acceleration

B

centrifugal acceleration

C

both a or b

D

none of these

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Q 95

A spring having spring constant of 10 N/m^2 is stretched to 5 m , what will be the work done

A 250 J

B 50 J

C -250 J

D 125 J

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Q 96

If a Charge of 2C is travelling parallel to a magnetic field of 4T with 20 m/s Calculate the net force on it

A

160N

B

120N

C

0N

D

100N

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Q 97

A radioactive sample with a half life of 1 month has the label : "Activity=2 micro curies on 1.8.1991." What will be its activity two months later?

A 0.5 micro curies

B 8 micro curies

C 1 micro curies

D 2 micro curies

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Q 98

x-rays are produced in _____ tube

A

Ar filled

B

He filled

C

H filled

D

Vacuum

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Q 99

For angular acceleration anti-clockwise rotations means torque is

A positive

B negative

C zero

D infinite

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Q 100

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A 25 Hz

B 50Hz

C 100Hz

D zero

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Q 101

The heat sensitive device whose resistivity changes very rapidly with change of temperature is called a :

A

resistor

B

super-conductor

C

thermocouple

D

thermistor

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Q 102

Acceleration is always _____ for a freely falling body

A positive

B negative

C zero

D none of these

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Q 103

Which one of the following is a disadvantage of a potentiometer over a voltmeter?

A

it can measure the internal resistance of a cell

B

it can measure the e.m.f. of a cell

C

it is heavy and not portable

D

it can measure accurately very small PD. of the ord of few microvolt

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Q 104

How can a magnetic field be produced?

A

Using a permanent magnet

B

Electric current

C

Using a temporary magnet

D

Using a permanent magnet or electric current

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Q 105

What is the SI Unit of Potential difference?

A

Volts

B

Coulomb

C

Meter

D

newton's

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Q 106

An air pipe opens at both ends. A stationary wave is produced in second harmonic mode. What is the phase difference between the motion of the particles at the end of the pipe and at the centre of the pipe.

A 0 deg

B 90 deg

C 180 deg

D 270 deg

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Q 107

Lamination of the transformer core is made of

A

cast iron

B

silicon steel

C

Aluminium

D

cast steel

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Q 108

Which of the given motion is a type of 2D motion

A

Circular

B

Pendulum motion

C

Projectile motion

D

All of these

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Q 109

Work done in an adiabatic process of gas from T_1 to T_2 is

A $nR/(\gamma-1)(T_1-T_2)$

B $nR/(\gamma-1)(T_2-T_1)$

C $nR(T_2-T_1)$

D $R(T_2-T_1)$

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Q 110

What happens to the flux if applied magnetic field is doubled on the same surface

A becomes half

B becomes twice

C becomes infinite

D becomes 4 times

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Q 111

For anti-clockwise rotations direction of angular velocity is

A positive

B negative

C zero

D infinite

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Q 112

The body move 10 m along the straight line under the force 5 N, what is the angle between force and displacement

A 0 degree

B 30 degree

C 45 degree

D 60 degree

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Q 113

C^{14} decays with a half life of about 5800 years. In a sample of bone the ratio of C^{14} to C^{12} is found to be $\frac{1}{4}$ th of what it is in free air. This bone may belong to a period about X centuries ago, where X is nearest to:

A 2×58

B 58

C $\frac{58}{2}$

D 3×58

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Q 114

Three objects are brought close to one another, two at a time. When objects A and B are brought together, they attract. When objects B and C are brought together, they repel. Which of the following are necessarily true?

- A objects A and C possess charges of the same sign
- B objects A and C possess charges of opposite sign
- C all three objects possess charges of the same sign
- D additional experiments must be performed to determine information about the charges on the objects

113

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Q 115

An object is displaced from position vector $r_1 = (2i + 3j)m$ to $r_2 = (4j + 6k)m$ under a force $F = (3x^2 i + 2y j) N$. Find the work done by this force

A 55 J

B 83 J

C 0

D -83 J

114

SKIPPED QUESTIONS 

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Q 116

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A 100 Hz

B 25Hz

C 50Hz

D 200Hz

115

SKIPPED QUESTIONS 

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Next Question 

Q 117

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A 1

B 0.1

C 0.01

D None of these

116

SKIPPED QUESTIONS 

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Next Question 

Q 118

One of the major reasons for heat loss in transformer is

A

Radiation loss

B

Convection loss

C

eddy current loss

D

none of these

117

SKIPPED QUESTIONS 

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Next Question 

Q 119

A galvanometer acting as a voltmeter will have a coil with

A a high resistance in parallel

B a high resistance in series

C a low resistance in parallel

D a low resistance in series

118

SKIPPED QUESTIONS 

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Next Question 

Q 120

A stationary wave is formed in a pipe which is open at one end. If length of pipe is 5 cm, then what is the maximum possible wavelength of the wave.?

A 5 cm

B 10 cm

C 15 cm

D 20 cm

119

SKIPPED QUESTIONS 

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Q 121

A reversible carnot engine converts $\frac{1}{6}$ th of heat into input work. When the temperature of sink is reduced by 62°C then efficiency is doubled then temperature of source and sink is

A $80^\circ\text{C}, 37^\circ\text{C}$

B $99^\circ\text{C}, 30^\circ\text{C}$

C $99^\circ\text{C}, 25^\circ\text{C}$

D $99^\circ\text{C}, 37^\circ\text{C}$

120

SKIPPED QUESTIONS 

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Next Question 

Q 122

The fast moving electrons stopped by a heavy metallic target in an evacuated glass tube, give rise to the production of:

A α - particles

B X-rays

C Laser

D β - particles

121

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Radon-222 has 136 neutrons, how many neutrons are there in Radon-220

A

131

B

134

C

136

D

none of these

122

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 124

A monatomic gas at pressure P and Volume V expands isothermally to volume $2V$ and then adiabatically to volume $16V$. The final pressure is

A $16P$

B $64P$

C $32P$

D $P/64$

123

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 125

Addition of second Electron to a uni-negative ion always_____?

A An endothermic process

B An exothermic process

C Neutral process

D Energy wasted

124

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 126

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

125

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 127

The alcohols having one hydroxyl group attached to the alkyl group are called as ____?

A

Monohydric alcohols

B

Dihydric alcohols

C

Trihydric alcohols

D

Polyhydric alcohols

126

SKIPPED QUESTIONS 

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Next Question 

Q 128

If energy of reactants is less than that of products then _____ during the reaction?

A Heat is gained

B Heat is lost

C Heat is absorbed

D No heat gain or loss takes place

127

SKIPPED QUESTIONS 

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Next Question 

Q 129

The separation of components of liquid on the basis of their boiling points is called as?

A Destructive distillation

B Fractional distillation

C Vacuum distillation

D Partial distillation

128

SKIPPED QUESTIONS 

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Q 130

Which enzyme causes the hydrolysis of fats ?

A

Urease

B

Lipase

C

Maltase

D

Protease

129

SKIPPED QUESTIONS 

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Next Question 

Q 131

The elements having partially filled d and f orbitals are called as_____?

A Transition elements

B d-Block elements

C f-block elements

D All of these

130

SKIPPED QUESTIONS 

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Next Question 

Q 132

The concept of _____ of gases helps to relate solids and liquids in a quantitative manner.

A

density

B

molar volume

C

pressure

D

temperature

131

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 133

the transfer of electron from an atm of _____ I.E to other atom with ____ E.A is called ionic bond by Lewis

A high, low

B low, low

C low, high

D high, high

132

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 134

Ethyl alcohol is a non polar solvent but can dissolve in water because of formation of ____

A polar bond

B non-polar bond

C H-bond

D all of these

133

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 135

The reaction in which one of the group of a compound is replaced by another group of atoms is called as_____?

A Substitution

B Elimination

C Addition

D Condensation

134

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 136

The densities of liquids are much _____ than gases but _____ to solids

A smaller, closer

B greater, closer

C smaller, far away

D greater, far away

135

SKIPPED QUESTIONS 

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Next Question 

Q 137

$\text{S}_{\text{N}}1$ reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

136

SKIPPED QUESTIONS 

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Next Question 

Q 138

Which one of the following is correct value of resonance energy of benzene?

A 155.5kJ/mol

B 150.5kJ/mol

C 170 kJ/mol

D 140.5kJ/mol

137

SKIPPED QUESTIONS 

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Next Question 

Q 139

Alkynes are soluble in_____?

A

Water

B

Benzene

C

Toluene

D

Both b and c

138

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 140

A structural formula shows_____?

A

Arrangement of atoms in the compound

B

Arrangement of electrons in the compound

C

Arrangement of Orbitals that involved in bonding

D

Lewis structure of compounds

139

SKIPPED QUESTIONS 

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Next Question 

Q 141

Aldole consist of which functional group?

A

Aldehyde

B

Alcohol

C

Both a and b

D

Ketone

140

SKIPPED QUESTIONS 

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Next Question 

Q 142

Heat of a solution for the substance whose solubility decrease with increase in temperature is

A Positive

B Zero

C High

D Negative

141

SKIPPED QUESTIONS 

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Next Question 

Q 143

Two cotton plugs soaked in HCl and NH₃ solutions are introduced in the open ends of glass tube ,1 cm long. Which gas travels fast

A HCl

B NH₃

C equally

D both

142

SKIPPED QUESTIONS 

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Next Question 

Q 144

Which one of the following has more unpaired electrons?

A Mn

B Cr

C Cu

D Zn

143

SKIPPED QUESTIONS 

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Next Question 

Q 145

A crystal is made up of

A

atoms

B

ions

C

molecules

D

all of these

144

SKIPPED QUESTIONS 

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Next Question 

Q 146

The most electropositive element among the following is:

A Li

B Ca

C Cs

D Ca

145

SKIPPED QUESTIONS 

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Next Question 

Q 147

There is one lone pair present in H_3O^+ , it cannot act as_____?

A Electrophile

B Lewis acid

C Nucleophile

D Strong acid

146

SKIPPED QUESTIONS 

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Next Question 

Q 148

All are aliphatic carboxylic acid except ?

A Benzoic acid

B Methanoic acid

C Ethanoic acid

D Acetic acid

147

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 149

Non protein part which is conjugated with protein is called_____.

A Coenzyme

B Co-factor

C Prosthetic group

D None

148

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 150

Albumin is water _____?

A

Soluble

B

Insoluble

C

Slightly soluble

D

Highly insoluble

149

SKIPPED QUESTIONS 

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Next Question 

Q 151

It is amorphous

A

wax

B

plastic

C

glass

D

all of these

150

SKIPPED QUESTIONS 

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Next Question 

Q 152

which element is required for making Chlorophyll in Leaf?

A Si

B Ba

C Mg

D Ca

151

SKIPPED QUESTIONS 

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Next Question 

Q 153

What is the sum of all the energies present in a reaction mixture or system called as?

A Thermal energy

B Total heat content

C Internal energy

D Enthalpy

152

SKIPPED QUESTIONS 

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Next Question 

Q 154

What is the emf of Zn-Cu cell ?

A

1.01V

B

1.23V

C

1.1V

D

1.44V

153

SKIPPED QUESTIONS 

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Next Question 

Q 155

Which one of the following is neutral to litmus?

A

Phenol

B

Ethanol

C

Carboxylic acid

D

NaOH

154

SKIPPED QUESTIONS 

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Next Question 

Q 156

Masses of atoms ranges from

A 1×10^{-28} kg to 1×10^{-22} kg

B 1×10^{-26} kg to 1×10^{-23} kg

C 1×10^{-27} kg to 1×10^{-24} kg

D 1.6373×10^{-27} kg to 1×10^{-25} kg

155

SKIPPED QUESTIONS 

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Next Question 

Q 157

Ionization energies of atoms depends upon the factors

A

atomic radius of atoms

B

nature of orbital

C

shielding effect of inner electrons

D

all of these

156

SKIPPED QUESTIONS



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Next Question >

Q 158

How acetic acid is commercially synthesized;

A from acetylene hydrogenation

B from oxidation of ethyl alcohol

C from oxidation of benzaldehyde

D all of these

157

SKIPPED QUESTIONS 

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Next Question 

Q 159

Quantum numbers are set of numerical values which give solution to the equation

A

planks

B

Heisenberg

C

Schrödinger

D

all of these

158

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Next Question 

Q 160

When light is exposed to transition element then electrons jump from lower orbital's to higher orbitals in

A

Orbitals of f-subshell

B

Orbital's of d-sub shell

C

Orbitals of p-subshell

D

Both A & B

159

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Q 161

Which of the following is Bayer's reagent ?

A

$\text{Br}_2/\text{H}_2\text{O}$

B

Dilute alkaline KMnO_4

C

ZnCl_2/HCl

D

Br_2/CCl_4

160

SKIPPED QUESTIONS 

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Next Question 

Q 162

Carboxylic acids form dimer due to_____?

A

Small sizes

B

Polarity of C-O bond

C

H-bonding

D

Dipole-Dipole interactions

161

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Next Question 

Q 163

Which of the following is an example of Nucleophile?

A



B



C



D



162

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Q 164

Gases are ideal at high ____ and become non ideal at high ____

A pressure, volume

B pressure, temperature

C temperature, Pressure

D volume, pressure

163

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Next Question 

Q 165

Rate determining step is also called

A

Critical step

B

Rate Limiting step

C

Final Step

D

None of these

164

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Next Question 

Q 166

Which of the these reactions occur at a moderate rate

A

Rusting Of Iron

B

Fermentation of sugar

C

Hydrolysis of Ester

D

Chemical weathering of stone work by acid.

165

SKIPPED QUESTIONS 

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Next Question 

Q 167

Which of the following alkyl halide is most reactive towards Mg atom?

A Alkyl bromide

B Alkyl fluoride

C Alkyl chloride

D Alkyl iodide

166

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Next Question 

Q 168

Which metal is paramagnetic?

A

Cr

B

Mn

C

Fe

D

All of these

167

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Next Question 

Q 169

Dipole forces has direct relation with the _____?

A Chemical properties of a substance

B Kinetic properties of substance

C Thermodynamic properties of substance

D Nature of substance

168

SKIPPED QUESTIONS 

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Next Question 

Q 170

A double bond consist of

A

one sigma one pie

B

2 sigma

C

2 pie

D

half pie half sigma

169

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 171

Phenol is _____ liquid ?

A

Dense

B

Hard

C

Deliquescent

D

intermittent

170

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 172

The _study of composition of pure substance in 17th century clearly shows that few elements are components of many substances

A qualitative

B quantitative

C both A & B

D extensive

171

SKIPPED QUESTIONS 

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Next Question 

Q 173

LDH-1 is raised in which disease:

A

Rickets

B

Anemia

C

Heart disorders

D

Stroke

172

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 174

Isoelectronic species have same

A

electronic configuration

B

Ionic size

C

Reactivity

D

PH

173

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 175

Which color of precipitates are formed when carbonyl compounds react with 1,2-dinitrophenylhydrazine?

A Yellow or red

B Orange or blue

C Green or red

D Yellow or orange

174

SKIPPED QUESTIONS 

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Next Question 

Q 176

H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

175

SKIPPED QUESTIONS 

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Next Question 

Q 177

The rate of diffusion of a gas having molar mass 32 as compared to H_2 gas will be

A

6 times

B

4 times

C

one fourth

D

one eighth

176

SKIPPED QUESTIONS 

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Next Question 

Q 178

If any two sub shells have same $(n+l)$ values, the sub shells of _____ value will placed first

A higher

B smaller

C equal

D moderate

177

SKIPPED QUESTIONS 

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Next Question 

Q 179

When two carboxylic acids are strongly heated in the presence of P_2O_5 , which product is formed ?

A

Acid halides

B

Dimer

C

Acid anhydride

D

None of these

178

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Next Question 

Q 180

What are the basic particles of ice crystals

A

atoms

B

anions

C

cations

D

molecules

179

SKIPPED QUESTIONS 

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Next Question 

Q 181

Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

180

SKIPPED QUESTIONS 

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Next Question 

Q 182

My watch is five minutes ____.

A behind

B before

C slow

D early

181

SKIPPED QUESTIONS 

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Next Question 

Q 183

_____ ink in my pen is red.

A

A

B

An

C

The

D

No article

182

SKIPPED QUESTIONS



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Q 184

He was _____ in the rain then.

A

enjoys

B

enjoying

C

enjoy

D

will enjoy

183

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Next Question 

Q 185

The plants _____ in the absence of water.

A

dies

B

died

C

had died

D

had been died

184

SKIPPED QUESTIONS



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Next Question >

Q 186

Which of the sentences is correct?

A Next week I am going to the cinema.

B Next week I will going to the cinema.

C Next week I is going to the cinema.

D Next week I went to the cinema.

185

SKIPPED QUESTIONS 

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Next Question 

Q 187

Choose the correct sentence.

A

You're going to lose your slice of cake if you do not eat it quickly!

B

Your'e going to lose your slice of cake if you do not eat it quickly.

C

You're going to lose your slice of cake if you do not eat it quickly.

D

Youre going to lose your slice of cake if you do not eat it quickly.

186

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Q 188

There's _____ little rice left.

A

a

B

an

C

the

D

no article

187

SKIPPED QUESTIONS 

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Next Question 

Q 189

Can you pass me _____ salt?

A

a

B

an

C

the

D

no article

188

SKIPPED QUESTIONS



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Next Question >

Q 190

tumultuous

A

tranquil

B

frightened

C

turbulent

D

despairing

189

SKIPPED QUESTIONS



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Next Question >

Q 191

Choose the correct spelling of the word

A probaly

B probably

C probebly

D probly

190

SKIPPED QUESTIONS 

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Next Question 

Q 192

When I reached the station, the train (leave) _____.

A leave

B leaving

C left

D had left

191

SKIPPED QUESTIONS 

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Next Question 

Q 193

Children must be taught to _____ between right and wrong.

A compare

B contrast

C agree

D differentiate

192

SKIPPED QUESTIONS 

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Q 194

What tense is the verb in this sentence? 'I got home from work at 6.30pm.'

A

Present

B

past

C

future

D

none of these

193

SKIPPED QUESTIONS



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Next Question >

Q 195

Choose the correct spelling of the word

A prettiest

B prettyest

C pretiest

D preetiast

194

SKIPPED QUESTIONS 

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Next Question 

Q 196

Choose the correct sentence.

A Qamar is going to college in September, he plans to study Sociology.

B Qamar is going to college in september, he plans to study sociology.

C Qamar is going to college in September he plans to study Sociology.

D Qamar is going to college in september he plans to study Sociology?

195

SKIPPED QUESTIONS 

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Next Question 

Q 197

The quality of food here _____ gone down.

A have

B has

C is

D are

196

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 198

I _____ (write) a new book. I _____ (hope) to finish it by the end of this month.

A write, hoping

B am writing, hope

C wrote, am hopeful

D writing, hope

197

SKIPPED QUESTIONS 

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Q 199

_____ knows that Dallas is not the capital of Texas.

A

Anyone

B

Many persons

C

Not everyone

D

Somebody

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 200

exude

A

ooze

B

exhaust

C

absorb

D

contain

199

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 201

Statement: The police authority has recently caught a group of house breakers. The citizens group in the locality have started night vigil in the area.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

200

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 202

23rd letter of English alphabets is

A

X

B

W

C

Z

D

Y

201

SKIPPED QUESTIONS



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Q 203

Statement There has been an unprecedented increase in the number of requests for seats in most of the long distance trains during the current holiday season. I. The Statement There is an unprecedented increase in migration of villagers to urban areas as repeated crop failure has put them into precarious financial situation. Courses of Action I. The villagers should be provided with alternate source of income in their villages which will make them stay put. II. The migrated villagers should be provided with jobs in the urban areas to help them survive. authority should immediately increase the capacity in each of these trains by attaching additional coaches. II. The people seeking accommodation should be advised to make their travel plan after the holiday.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

Q 204

Some kings are powerful. All powerful are formidable. Conclusions: I. All kings are powerful. II. All powerful are formidable.

A Only conclusion II follows

B Only I conclusion II follows

C Either I or II follows

D Neither I nor II follows

203

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 205

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A both of them follows

B None of them follows

C Only I follows

D Only II follows

204

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Q 206

Complete the series ACD, AGD, AJD, _?

A

ABD

B

ATD

C

AND

D

AMD

205

SKIPPED QUESTIONS 

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Q 207

What should come next to save, secure, protect, ?

A

Guard

B

Lock

C

Conserve

D

Humble

206

SKIPPED QUESTIONS



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Q 208

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

207

SKIPPED QUESTIONS 

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Q 209

Statement: Rural and semi urban areas in the country have been suffering due to load shedding for quite some time. If the government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

208

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Q 210

Look at this series 5.2, 4.8, 4.4, 4. What number should come next

A

3

B

3.3

C

3.5

D

3.6

209

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Submit



Q1

A monatomic gas at pressure P and Volume V expands isothermally to volume $2V$ and then adiabatically to volume $16V$. The final pressure is

A

 $16P$

B

 $64P$

C

 $32P$

D

 $P/64$ [< Previous Question](#)[Next Question >](#)



Q2

How acetic acid is commercially synthesized;

A

from acetylene hydrogenation

B

from oxidation of ethyl alcohol

C

from oxidation of benzaldehyde

D

all of these

[< Previous Question](#)[Next Question >](#)



Q3 Dipole forces has direct relation with the _____?

- A Chemical properties of a substance
- B Kinetic properties of substance
- C Thermodynamic properties of substance
- D Nature of substance



Question 4/210

Q4

The plants _____ in the absence of water.

A

dies

B

died

C

had died

D

had been died

[← Previous Question](#)

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Question 5/210

Q5

exude

A

ooze

B

exhaust

C

absorb

D

contain

[← Previous Question](#)

[Next Question →](#)



Q6

What is true for pili and flagella like structures of bacteria

A

both are same in size

B

both help in movement

C

both are composed of proteins

D

All of Above

[< Previous Question](#)[Next Question >](#)



Question 7/210

Q7

The lighter, inner section of the brain is called:

A

white matter

B

Gray matter

C

Reflex arc

D

Medulla

[← Previous Question](#)

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Question 8/210

Q8

Centrioles are composed of how many triplets of microtubules?

A

6

B

9

C

12

D

15

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Question 9/210

Q9

Which method is of asexual reproduction?

A

sporulation

B

fission

C

apomixis

D

all of these

[← Previous Question](#)

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Q10

Haemophilia B is caused in the absence of:

A

Factor XI

B

Factor IX

C

Factor VIII

D

Factor VII

[< Previous Question](#)[Next Question >](#)



Q11

Adaptation of traits to better fill a niche is known as which of the following?

A

polymorphism

B

gene linkage

C

specialization

D

replication

[< Previous Question](#)[Next Question >](#)



Question 12/210

Q12

Cellular organelles that interact with hydrogen peroxide are called?

A

Glyoxysomes

B

Lysosomes

C

Ribosomes

D

Peroxisomes

[← Previous Question](#)

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Q13

In uncompetitive inhibition, the inhibitor binds with

A

enzyme

B

substrate

C

ES-complex

D

all of these

[< Previous Question](#)[Next Question >](#)



Q14

Inbreeding increases the frequency of which of the following?

A

heterozygous

B

genetic diversity

C

genetic linkage

D

homozygous



Q15

Which of the following carbohydrate cannot be hydrolysed?

A

Monosaccharides

B

Oligosaccharides

C

polysaccharides

D

carbohydrates

[< Previous Question](#)[Next Question >](#)



Q16

One of the actions of the parasympathetic nervous system is?

A

Inhibits peristalsis

B

Dilates Bronchioles

C

Constriction of Pupils

D

Sweat secretion

[< Previous Question](#)[Next Question >](#)



Question 17/210

Q17

The function of spleen is to filter ---

A

Blood

B

Lymph

C

Semen

D

Amniotic fluid

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Q18

Cellular respiration is essentially what type of process?

A

Oxidation

B

Reduction

C

Redox

D

None of the above

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Q19

The function of lymph node is to filter ----

A

Blood

B

Lymph

C

Semen

D

Amniotic fluid

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Q20

Both radial and bilateral symmetry is found in which of the following phylum?

A

Protozoa

B

Porifera

C

Echinodermata

D

all of these

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Q21

Which two reactions occur during photophosphorylation

A

ATP is hydrolysed and NADP is reduced.

B

ATP is hydrolysed and NADPH is oxidised.

C

ATP is synthesised and NADP is reduced.

D

ATP is synthesised and NADPH is oxidised



Q22

This is true about pyruvate hydrogenase enzyme

A

it converts pyruvate to oxaloacetate

B

it catalyzed the oxidative decarboxylation reaction

C

it is present in cytosol of eukaryotic cell

D

its requires NADH



Q23

Which of the following is the key function of pleural cavity?

A

Reduces friction between membranes

B

Slide easily on one another

C

allows membrane to adhere on one another

D

all of these are correct



Q24

In which of these reflexes, a skeletal muscle contraction causes the agonist muscle to simultaneously lengthen and relax?

A

stretch reflex

B

spinal reflex

C

golgi tendon reflex

D

Crossed Extensor Reflex

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Q25

Which of the following is an ovoviviparous organism?

A

reptiles

B

mammals

C

frog

D

Duckbill platypus

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Q26

Cancer is a malignant tumour that can:

A

control the other cells

B

spread in all the body

C

remains in specific place

D

all of these are correct



Question 27/210

Q27

Movement of the material across the cell membrane which does not requiring expenditure of metabolic energy is called?

A

active transport

B

passive transport

C

diffusion

D

both b and c

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Q28

Water soluble vitamins contain high proportion of which of the following?

A

electronegative oxygen

B

nitrogen atoms

C

sulfur

D

both a and b

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Q29

tropical plants such as sugarcane show high efficiency of CO₂ fixation because of

A

calvin cycle

B

hatch-slack

C

TCA-cycle

D

all of these

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Q30

All of the following are true about bacilli bacteria except

A

All bacilli are gram positive

B

All bacilli are aerobic

C

All bacilli are rod-shaped

D

both a and b

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Q31

The 23rd pair of chromosomes in man is:

A

Polymorphic

B

Heteromorphic

C

Homomorphic

D

Automorphic

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Question 32/210

Q32

The main transmitter for synapses that lie outside the central nervous system is?

A

adrenaline

B

serotonin

C

dopamine

D

acetylcholine

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Question 33/210

Q33

Neo-Darwinism has integrated discoveries and ideas from which of the following fields of study?

A

genetics

B

paleontology

C

taxonomy

D

all of these

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Q34

Enzymes do not change which of the following?

A

conc. Of reactants

B

conc. Of products

C

K_{eq}

D

both a and b

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Question 35/210

Q35

In humans gill pouches have evolved into which of the following organs?

A

nose

B

ear

C

pharynx

D

eustachian tubes

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Q36

Which of the following is an example of a tetrapod?

A

Flesh fly

B

Blue-ringed octopus

C

Tarantula

D

Hummingbird

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Question 37/210

Q37

If the 1 amino acid is joined together by peptide bonds, it becomes

A

protein

B

globular protein

C

functional protein

D

secretive protein

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Q38

Example of convergent evolution is

A

forelimbs of man and bat

B

wings of birds and insects

C

Darwin's finches

D

all of above

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Q39

The sperms are what in origin?

A

Ectodermal

B

Mesodermal

C

Endodermal

D

none of these

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Q40

Which one is not found in fatty acids in acylglycerols?

A

C26

B

C25

C

C30

D

C28

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Q41

These give rise to nematocysts in Cnidaria.

A

Cnidocytes

B

Gastrozooids

C

Hydrozooids

D

Mesoglea

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Question 42/210

Q42

The embryonic hindbrain gives rise to which structures in brain?

A

Diencephalon

B

Midbrain

C

Cerebrum and basal ganglia

D

cerebellum, pons and medulla oblongata

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Q43

Tropomyosin binds to — and prevents the myosin from sliding up the actin filament.

A

myosin

B

actin

C

Myosin filament

D

Both B and C

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Question 44/210

Q44

Intercostal muscles are found in

A

Ribs

B

Pharynx

C

Lungs

D

Both B and C

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Question 45/210

Q45

The types of gametes produced by two pairs of chromosomes can be?

A

2

B

4

C

6

D

8

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Q46

The optimal pH in which the enzyme kinase functions is?

A

1.5

B

3.5

C

5.5

D

7.5

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Question 47/210

Q47

The genetically engineered virus is available for which of the following hepatitis virus?

A

HBV

B

HAV

C

HCV

D

A and B

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Q48

What is the most common electron transport chain?

A

non-cyclic electron flow

B

cyclic electron flow

C

circular electron flow

D

both b and c

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Q49

All of the following descriptions concerning viral multiplication and nucleic acids are true EXCEPT that:

A

viruses contain DNA or RNA, not both.

B

viruses replicate only in living cells

C

viruses use the cell's biosynthetic machinery to synthesize copies of themselves.

D

viral mRNA, viral tRNA, and viral ribosomes are used in viral replication.



Q50

The Urey-Miller experiment determined which of the following results?

A

DNA replicates by semiconservative replication

B

Cyanobacteria were responsible for the oxygenation of the atmosphere

C

The early atmosphere was composed of ammonia and methane

D

Organic molecules can arise from inorganic precursors



Q51

Two populations of the same species over time grow distant from one another. At what point will these two populations be considered different species?

A

When the populations begin to eat different foods

B

When there is a physical barrier, such as a river, between the two populations

C

When the two populations have not been in contact with one another for two hundred years

D

When they are no longer able to interbreed



Q52

What is the phenotypic ratio for a cross between a plant with blue flowers BB and a plant with white flowers bb?

A

25% blue, 75% white

B

75% blue, 25% white

C

All white

D

All blue



Question 53/210

Q53

Which of the following virus is enveloped?

A

adenovirus

B

herpes virus

C

poliovirus

D

none of these

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Q54

The optimum pH for the functioning of pancreatic lipase is?

A

8

B

9

C

7

D

6

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Question 55/210

Q55

What would be the resolving power of the objective length in a microscope if the eyepiece is 10X and total magnification is 40X?

A

4

B

10

C

40

D

400

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Q56

From one pyruvate passing through Krebs cycle, how many NADH are formed?

A

1

B

2

C

3

D

4

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Question 57/210

Q57

A scientist who first reported about microbes is

A

Antonie Van Lecuwenhoek

B

Robert Koch

C

Louis Pasteur

D

Twort

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Q58

The nodules of lymphoid tissue found in the wall of the intestinal tract are termed as:

A

Grave's region

B

Hashimoto's nodes

C

Peyer's patches

D

DiGeorge's nodes

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Q59

What is a key difference between spermatogenesis and oogenesis?

A

Spermatogenesis results in only 1 sperm; oogenesis results in 4 eggs.

B

Spermatogenesis results in 2 sperm; oogenesis results in only 1 egg.

C

Spermatogenesis results in 8 sperm; oogenesis results in only 4 eggs.

D

Spermatogenesis results in 4 sperm; oogenesis results in only 1 egg.



Question 60/210

Q60

Under microscopic examination, which cellular structure would differentiate a plant cell from an animal cell?

A

nucleus

B

cell membrane

C

cytoplasm

D

cell vacuole

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Q61

The autonomic nervous system functions to

A

act on external environment

B

regulate the internal environment

C

transmit motor information to brain

D

none of these

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Question 62/210

Q62

Which of the following is NOT a bony fish?

A

Perch

B

Plaice

C

Catfish

D

Dogfish

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Q63

The canal system in sponges develops due to which of the following?

A

Porous walls

B

Gastrovascular system

C

Reproduction

D

Folding of inner walls



Q64

Which of these is common is both lymph vessels and veins?

A

Both have small bore

B

both have valves

C

both have low blood pressure

D

both are communicated

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Q65

Principle of transformer is

A

mutual inductance

B

self induction

C

motional emf

D

none of these

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Q66

Resistivity of a substance is defined as the resistance of a _____ of that substance.

A

meter

B

meter square

C

meter cube

D

centimeter

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Q67

What will be the product of beta decay of C-14?

A

C-14

B

N-14

C

O-14

D

Be-14

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Q68

Coulomb force is a

A

Short range force

B

Long range force

C

Medium range force

D

None of these

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Q69

Which of the following is the same for isotopes?

A

neutrons

B

protons

C

electrons

D

all of them

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Q70

The SI Unit of electric charge is?

A

Coulomb

B

Ampere

C

Hertz

D

Volt

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Q71

An oscillation is called simple harmonic motion when:

A

acceleration is directly proportional to $-x$

B

acceleration is directly proportional to x

C

acceleration is directly proportional to v

D

acceleration is inversionally proportional to $-x$



Q72

The ratio of period of excitation in ordinary and metastable state is

A

4:10⁻⁸

B

1:10⁻⁸

C

1:10⁵

D

All of these

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Q73

Rate of change of displacement with respect to time is

A

acceleration

B

velocity

C

speed

D

power

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Q74

Angular displacement is a:

A

vector quantity

B

scalar quantity

C

neither scalar nor vector quantity

D

none of these

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Q75

Can we see magnetic flux lines?

A

Yes

B

No

C

Depends on strength of field

D

Only when the field is large



Q76

Internal energy of the system depends on:.....

A

initial and final states of the system and the path from initial to final state

B

initial and final states of the system only

C

initial state of the system and the path from initial to final state

D

the path from initial to final state



Q77

Electric field lines due to a negative charge are:...

A

always horizontal

B

always vertical

C

radially towards the charge

D

radially away from the charge



Q78

A transformer has negative voltage regulation when its load power factor is

A

Lagging

B

Leading

C

Unity

D

any of above

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Q79

The H atom cannot produce

A

alpha rays

B

beta rays

C

x-rays

D

none of these

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Question 80/210

Q80

What is an optically active medium?

A

which absorbs light

B

which absorbs polarized light

C

which rotates plane of polarization

D

which refract polarized light

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Q81

The resistance of a superconductor is

A

Finite

B

Infinite

C

Zero

D

Changes with every conductor



Question 82/210

Q82

A sinusoidal current has rms value of 10A. What is the peak value of current?

A

144.4A

B

1.4A

C

0.1414A

D

14.4A

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Q83

The source of x rays generation is

A

Cu

B

H

C

Na

D

Al

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Q84

In compton's scattering process , wavelength of scattered X-rays :

A

Remains same

B

Increases

C

Decreases

D

None of these

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Q85

A transverse wave on a string has an amplitude A . A tiny spot on the string is colored red. As one cycle of the wave passes by, what is the total distance traveled by the red spot?

A

 A

B

 $2A$

C

 $A/2$

D

 $4A$



Question 86/210

Q86

The angular acceleration is similar to

A

centripetal acceleration

B

centrifugal acceleration

C

both a or b

D

none of these

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Question 87/210

Q87

A spring having spring constant of 10 N/m^2 is stretched to 5 m , what will be the work done

A

250 J

B

50 J

C

-250 J

D

125 J

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Question 88/210

Q88

If a Charge of 2C is travelling parallel to a magnetic field of 4T with 20 m/s Calculate the net force on it

A

160N

B

120N

C

0N

D

100N

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Q89

A radioactive sample with a half life of 1 month has the label : "Activity=2 micro curies on 1.8.1991." What will be its activity two months later?

A

0.5 micro curies

B

8 micro curies

C

1 micro curies

D

2 micro curies

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Question 90/210

Q90

x-rays are produced in ____ tube

A

Ar filled

B

He filled

C

H filled

D

Vacuum

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Q91

In full wave rectifier with input frequency 50 Hz the ripple in the output is mainly of frequency

A

25 Hz

B

50Hz

C

100Hz

D

zero

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Q92

The heat sensitive device whose resistivity changes very rapidly with change of temperature is called a :

A

resistor

B

super-conductor

C

thermocouple

D

thermistor

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Q93

Acceleration is always _____ for a freely falling body

A

positive

B

negative

C

zero

D

none of these

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Q94

Which one of the following is a disadvantage of a potentiometer over a voltmeter ?

A

it can measure the internal resistance of a cell

B

it can measure the e.m.f. of a cell

C

it is heavy and not portable

D

it can measure accurately very small PD. of the ord of few microvolt



Q94

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B

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D

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Question 96/210

Q96

What is the SI Unit of Potential difference?

A

Volts

B

Coulomb

C

Meter

D

newton's

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Q97

An air pipe opens at both ends. A stationary wave is produced in second harmonic mode. What is the phase difference between the motion of the particles at the end of the pipe and at the centre of the pipe.

A

0 deg

B

90 deg

C

180 deg

D

270 deg



Q98

Lamination of the transformer core is made of

A

cast iron

B

silicon steel

C

Aluminium

D

cast steel

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Q99

Work done in an adiabatic process of gas from T_1 to T_2 is

A

$$nR/(\gamma-1)(T_1-T_2)$$

B

$$nR/(\gamma-1)(T_2-T_1)$$

C

$$nR(T_2-T_1)$$

D

$$R(T_2-T_1)$$



Q100

What happens to the flux if applied magnetic field is doubled on the same surface

A

becomes half

B

becomes twice

C

becomes infinite

D

becomes 4 times



Q101

For anti-clockwise rotations direction of angular velocity is

A

positive

B

negative

C

zero

D

infinite

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Q102

The body move 10 m along the straight line under the force 5 N, what is the angle between force and displacement

A

0 degree

B

30 degree

C

45 degree

D

60 degree

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Q103

C^{14} decays with a half life of about 5800 years. In a sample of bone the ratio of C^{14} to C^{12} is found to be $1/4$ th of what it is in free air. This bone may belong to a period about X centuries ago, where X is nearest to:

A

 2×58

B

58

C

 $58/2$

D

 3×58 [< Previous Question](#)[Next Question >](#)



Q104

Three objects are brought close to one another, two at a time. When objects A and B are brought together, they attract. When objects B and C are brought together, they repel. Which of the following are necessarily true?

A

objects A and C possess charges of the same sign

B

objects A and C possess charges of opposite sign

C

all three objects possess charges of the same sign

D

additional experiments must be performed to determine information about the charges on the objects



Q105

An object is displaced from position vector $r_1 = (2i + 3j)m$ to $r_2 = (4j + 6k)m$ under a force $F = (3x^2 i + 2y j) N$. Find the work done by this force

A

55 J

B

83 J

C

0

D

-83 J

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Q106

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A

1

B

0.1

C

0.01

D

None of these

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Q107

One of the major reasons for heat loss in transformer is

A

Radiation loss

B

Convection loss

C

eddy current loss

D

none of these

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Q108

A galvanometer acting as a voltmeter will have a coil with

A

a high resistance in parallel

B

a high resistance in series

C

a low resistance in parallel

D

a low resistance in series



Q109

A stationary wave is formed in a pipe which is open at one end. If length of pipe is 5 cm, then what is the maximum possible wavelength of the wave.?

A

5 cm

B

10 cm

C

15 cm

D

20 cm

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Q110

A reversible carnot engine converts 1/6th of heat into input work. When the temperature of sink is reduced by 62 degree C then efficiency is doubled then temperature of source and sink is

A 80 C, 37 C

B 99 C, 30C

C 99C, 25C

D 99C, 37C

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Q111

The fast moving electrons stopped by a heavy metallic target in an evacuated glass tube, give rise to the production of:

A

α - particles

B

X-rays

C

Laser

D

β - particles



Q112

Radon-222 has 136 neutrons, how many neutrons are there in Radon-220

A

131

B

134

C

136

D

none of these

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Q113

Addition of second Electron to a uni-negative ion always_____?

A

An endothermic process

B

An exothermic process

C

Neutral process

D

Energy wasted



Q114

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

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Q115

The alcohols having one hydroxyl group attached to the alkyl group are called as ____?

A

Monohydric alcohols

B

Dihydric alcohols

C

Trihydric alcohols

D

Polyhydric alcohols

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Question 116/210

Q116

If energy of reactants is less than that of products then _____ during the reaction?

A

Heat is gained

B

Heat is lost

C

Heat is absorbed

D

No heat gain or lose takes place

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Question 117/210

Q117

The separation of components of liquid on the basis of their boiling points is called as?

A

Destructive distillation

B

Fractional distillation

C

Vacuum distillation

D

Partial distillation

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Q118

Which enzyme causes the hydrolysis of fats ?

A

Urease

B

Lipase

C

Maltase

D

Protease

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Q119

The elements having partially filled d and f orbitals are called as _____?

A

Transition elements

B

d-Block elements

C

f-block elements

D

All of these

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Q120

The concept of _____ of gases helps to relate solids and liquids in a quantitative manner.

A

density

B

molar volume

C

pressure

D

temperature

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Q121

Ethyl alcohol is a non polar solvent but can dissolve in water because of formation of __

A

polar bond

B

non-polar bond

C

H-bond

D

all of these



Question 122/210

Q122

The reaction in which one of the group of a compound is replaced by another group of atoms is called as_____?

A

Substitution

B

Elimination

C

Addition

D

Condensation

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Q123

The densities of liquids are much _____ than gases but _____ to solids

A

smaller, closer

B

greater, closer

C

smaller, far away

D

greater, far away

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Q124

$\text{S}_{\text{N}}1$ reactions are favored by which of the following reactions?

A

Water

B

Benzene

C

Carbon Tetrachloride

D

Carbon disulphide

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Q125

Which one of the following is correct value of resonance energy of benzene?

A

155.5kJ/mol

B

150.5kJ/mol

C

170 kJ/mol

D

140.5kJ/mol

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Q126

Alkynes are soluble in _____?

A

Water

B

Benzene

C

Toluene

D

Both b and c

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Q127

A structural formula shows_____?

A

Arrangement of atoms in the compound

B

Arrangement of electrons in the compound

C

Arrangement of Orbitals that involved in bonding

D

Lewis structure of compounds

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Q128

Heat of a solution for the substance whose solubility decrease with increase in temperature is

A

Positive

B

Zero

C

High

D

Negative

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Q129

Two cotton plugs soaked in HCl and NH₃ solutions are introduced in the open ends of glass tube ,1 cm long. Which gas travels fast

A

HCl

B

NH₃

C

equally

D

both



Q130

Which one of the following has more unpaired electrons?

A

Mn

B

Cr

C

Cu

D

Zn

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Q131

A crystal is made up of

A

atoms

B

ions

C

molecules

D

all of these

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Q132

The most electropositive element among the following is:

A

Li

B

Ca

C

Cs

D

Ca

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Q133

There is one lone pair present in H_3O^+ , it cannot act as _____?

A

Electrophile

B

Lewis acid

C

Nucleophile

D

Strong acid



Q134

All are aliphatic carboxylic acid except ?

A

Benzoic acid

B

Methanoic acid

C

Ethanoic acid

D

Acetic acid

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Q135

Albumin is water _____?

A

Soluble

B

Insoluble

C

Slightly soluble

D

Highly insoluble

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Question 136/210

Q136

It is amorphous

A

wax

B

plastic

C

glass

D

all of these

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Q137

which element is required for making Chlorophyll in Leaf?

A

Si

B

Ba

C

Mg

D

Ca

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Q138

What is the sum of all the energies present in a reaction mixture or system called as ?

A

Thermal energy

B

Total heat content

C

Internal energy

D

Enthalpy

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Q139

What is the emf of Zn-Cu cell ?

A

1.01V

B

1.23V

C

1.1V

D

1.44V

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Q140

Which one of the following is neutral to litmus?

A

Phenol

B

Ethanol

C

Carboxylic acid

D

NaOH

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Q141

Masses of atoms ranges from

A

 $1 \times 10^{-28} \text{ kg to } 1 \times 10^{-22} \text{ kg}$

B

 $1 \times 10^{-26} \text{ kg to } 1 \times 10^{-23} \text{ kg}$

C

 $1 \times 10^{-27} \text{ kg to } 1 \times 10^{-24} \text{ kg}$

D

 $1.6373 \times 10^{-27} \text{ kg to } 1 \times 10^{-25} \text{ kg}$



Q142

Ionization energies of atoms depends upon the factors

A

atomic radius of atoms

B

nature of orbital

C

shielding effect of inner electrons

D

all of these

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Q143

Quantum numbers are set of numerical values which give solution to the equation

A

planks

B

Heisenberg

C

Schrödinger

D

all of these

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Q144

When light is exposed to transition element then electrons jump from lower orbital's to higher orbitals in

A

Orbitals of f-subshell

B

Orbital's of d-sub shell

C

Orbitals of p-subshell

D

Both A & B

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Q145

Which of the following is Bayer's reagent ?

A

 $\text{Br}_2/\text{H}_2\text{O}$

B

Dilute alkaline KMnO_4

C

 ZnCl_2/HCl

D

 Br_2/CCl_4 [< Previous Question](#)[Next Question >](#)



Q146

Carboxylic acids form dimer due to _____?

A

Small sizes

B

Polarity of C-O bond

C

H-bonding

D

Dipole-Dipole interactions



Q147

Which of the following is an example of Nucleophile?

A

 Br^+

B

 CH_3^+

C

 NH_3

D

 CH_4 [< Previous Question](#)[Next Question >](#)



Q148

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

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Q149

Coelom is lined by which of the following?

A

Parietal mesoderm

B

Visceral mesoderm

C

Mesoderm

D

both a and b

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Q150

Which one of the following is most likely to occur in a boy during puberty?

A

He produces eggs

B

His shoulders broaden.

C

The colour of his eyes change.

D

None of these

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Question 151/210

Q151

This jelly like substance inside the plasma membrane in which all cell organelles are floating is?

A

cytoplasm

B

tonoplasm

C

karyoplasm

D

cell sap

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Q152

The female gametes are most commonly referred as?

A

egg

B

ova

C

ovum

D

all of these



Q153

Gases are ideal at high ____ and become non ideal at high ____

A

pressure, volume

B

pressure, temperature

C

temperature, Pressure

D

volume, pressure

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Q154

Rate determining step is also called

A

Critical step

B

Rate Limiting step

C

Final Step

D

None of these

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Q155

Which of the these reactions occur at a moderate rate

A

Rusting Of Iron

B

Fermentation of sugar

C

Hydrolysis of Ester

D

Chemical weathering of stone work by acid.

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Q156

Which of the following alkyl halide is most reactive towards Mg atom?

A

Alkyl bromide

B

Alkyl fluoride

C

Alkyl chloride

D

Alkyl iodide

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Q157

Which metal is paramagnetic?

A

Cr

B

Mn

C

Fe

D

All of these

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Q158

A double bond consist of

A

one sigma one pie

B

2 sigma

C

2 pie

D

half pie half sigma

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Q159

Phenol is _____ liquid ?

A

Dense

B

Hard

C

Deliquescent

D

intermittent

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Q160

The _study of composition of pure substance in 17th century clearly shows that few elements are components of many substances

A

qualitative

B

quantitative

C

both A & B

D

extensive

[< Previous Question](#)[Next Question >](#)



Q161

LDH-1 is raised in which disease:

A

Rickets

B

Anemia

C

Heart disorders

D

Stroke

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Q162

Isoelectronic species have same

A

electronic configuration

B

Ionic size

C

Reactivity

D

PH

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Q163

Which color of precipitates are formed when carbonyl compounds react with 1,2-dinitrophenylhydrazine?

A

Yellow or red

B

Orange or blue

C

Green or red

D

Yellow or orange



Q164

H_3O^+ ions act as

A

Base

B

Catalyst

C

Buffer

D

Acid

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Q165

The rate of diffusion of a gas having molar mass 32 as compared to H_2 gas will be

A

6 times

B

4 times

C

one fourth

D

one eighth

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Q166

When two carboxylic acids are strongly heated in the presence of P_2O_5 , which product is formed ?

A

Acid halides

B

Dimer

C

Acid anhydride

D

None of these

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Q167

What are the basic particles of ice crystals

A

atoms

B

anions

C

cations

D

molecules

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Question 168/210

Q168

Some of the books on the table _____ to me.

A

belong

B

belonging

C

belongs

D

was belong

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Q169

My watch is five minutes _____.

A

behind

B

before

C

slow

D

early

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Q170

He was _____ in the rain then.

A

enjoys

B

enjoying

C

enjoy

D

will enjoy

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Q171

Which of the sentences is correct?

A

Next week I am going to the cinema.

B

Next week I will going to the cinema.

C

Next week I is going to the cinema.

D

Next week I went to the cinema.

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Q172

Choose the correct sentence.

A

You're going to lose your slice of cake if you do not eat it quickly!

B

Your'e going to lose your slice of cake if you do not eat it quickly.

C

You're going to lose your slice of cake if you do not eat it quickly.

D

Youre going to lose your slice of cake if you do not eat it quickly.



Q173

There's _____ little rice left.

A

a

B

an

C

the

D

no article

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Question 174/210

Q174

Can you pass me _____ salt?

A

a

B

an

C

the

D

no article

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Q175

tumultuous

A

tranquil

B

frightened

C

turbulent

D

despairing

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Q176

When I reached the station, the train (leave) _____.

A

leave

B

leaving

C

left

D

had left

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Question 177/210

Q177

Children must be taught to _____ between right and wrong.

A

compare

B

contrast

C

agree

D

differentiate

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Q178

Choose the correct spelling of the word

A

prettiest

B

prettiest

C

pretiest

D

preetiast

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Q179

Choose the correct sentence.

A

Qamar is going to college in September, he plans to study Sociology.

B

Qamar is going to college in september, he plans to study sociology.

C

Qamar is going to college in September he plans to study Sociology.

D

Qamar is going to college in september he plans to study Sociology?



Q180

The quality of food here _____ gone down.

A

have

B

has

C

is

D

are

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Q181

I _____ (write) a new book. I _____ (hope) to finish it by the end of this month.

A

write, hoping

B

am writing, hope

C

wrote, am hopeful

D

writing, hope

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Q182

_____ knows that Dallas is not the capital of Texas.

A

Anyone

B

Many persons

C

Not everyone

D

Somebody

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Q183

Statement: The police authority has recently caught a group of house breakers. The citizens group in the locality have started night vigil in the area.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause



Q184

23rd letter of English alphabets is

A

X

B

W

C

Z

D

Y

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Q185

Statement There has been an unprecedented increase in the number of requests for seats in most of the long distance trains during the current holiday season. I. The Statement There is an unprecedented increase in migration of villagers to urban areas as repeated crop failure has put them into precarious financial situation. Courses of Action I. The villagers should be provided with alternate source of income in their villages which will make them stay put. II. The migrated villagers should be provided with jobs in the urban areas to help them survive. authority should immediately increase the capacity in each of these trains by attaching additional coaches. II. The people seeking accommodation should be advised to make their travel plan after the holiday.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



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A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

Q186

Some kings are powerful. All powerful are formidable. Conclusions: I. All kings are powerful. II. All powerful are formidable.

A Only conclusion II follows

B Only I conclusion II follows

C Either I or II follows

D Neither I nor II follows

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Q187

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q188

Complete the series ACD, AGD, AJD, _?

A

ABD

B

ATD

C

AND

D

AMD

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Q189

What should come next to save, secure, protect, ?

A

Guard

B

Lock

C

Conserve

D

Humble

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Q190

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A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

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Q191

Look at this series 5.2, 4.8, 4.4, 4. What number should come next

A 3

B 3.3

C 3.5

D 3.6

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Q192

Two point charges attract each other with an electric force of magnitude F . If the charge on one of the particles is reduced to one-half its original value and the distance between the particles is doubled, what is the resulting magnitude of the electric force between them?

A F B $F/2$ C $F/4$ D $F/8$

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Q193

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25Hz

C

50Hz

D

200Hz

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Q195

The size of viruses as compared to bacteria is

A

much smaller

B

almost equal in size

C

much larger

D

All of Above

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Q194

_____ are among smallest known virus

A

picornavirus

B

parvoviruses

C

herpes virus

D

rotavirus

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Q195

The size of viruses as compared to bacteria is

A

much smaller

B

almost equal in size

C

much larger

D

All of Above

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Q196

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A 40 Hz

B $1/5$ Hz

C 5 Hz

D 500 Hz

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Q197

What is the chemical characteristic of auxins?

A

Indole propionic acid

B

Indole carboxylic acid.

C

Indole acetaldehyde

D

Indole acetic acid.

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Q198

For angular acceleration anti-clockwise rotations means torque is

A

positive

B

negative

C

zero

D

infinite

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Q199

Non protein part which is conjugated with protein is called_____.

A

Coenzyme

B

Co-factor

C

Prosthetic group

D

None

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Q200

Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?

A

Meiosis

B

Fertilization

C

Ovulation

D

Oogenesis

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Q201

Which of the following is not a type of rectifier?

A

Phase wave rectifier

B

Full wave

C

half wave

D

none of them

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Q202

Which of the given motion is a type of 2D motion

A

Circular

B

Pendulum motion

C

Projectile motion

D

All of these

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Q203

the transfer of electron from an atm of _____ I.E to other atom with ____ E.A is called ionic bond by Lewis

A high, low

B low, low

C low, high

D high, high

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Q204

joule / coulomb is unit of:...

A

electric potential difference

B

electric field strength

C

magnetic field strength

D

energy

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Q205

Aldole consist of which functional group?

A Aldehyde

B Alcohol

C Both a and b

D Ketone

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Q206

Choose the correct spelling of the word

A

probaly

B

probably

C

probeby

D

probyly

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Q207

What tense is the verb in this sentence? 'I got home from work at 6.30pm.'

A Present

B past

C future

D none of these

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Q208

_____ ink in my pen is red.

A

A

B

An

C

The

D

No article

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Q209

If any two sub shells have same $(n+l)$ values, the sub shells of _____ value will placed first

A

higher

B

smaller

C

equal

D

moderate

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Q210

Statement: Rural and semi urban areas in the country have been suffering due to load shedding for quite some time. If the government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

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